

**MAPS, PLATS, AND DRAWINGS ACCOMPANYING APPLICATION
FOR WATER USE PERMIT**

§295.121. Requirements.

Except where written approval of the executive director has been obtained, an application for a water use permit must be accompanied by application plans conforming to the following minimum requirements:

(1) The plans shall be prepared by, or under the direction and supervision of, a registered professional engineer. If irrigation is proposed, the portion of the plans pertaining to irrigation may be prepared by, or under the direction and supervision of, a registered public surveyor.

(2) The plans shall be on tracing linen with waterproof ink. However, photographic reproductions are acceptable if on a stable mat film such as "Chronar," "Estar," "Herculene," or approved equivalent. Aerial photographs or other forms of maps or plats may be considered acceptable for small projects, if appropriate.

(3) The scale shall be not less than 1 inch equals 2,000 feet.

(4) The dimensions of each sheet of plans on tracing linen or approved equivalent shall be 22-24 inches by 36 inches. There shall be a 2-inch binding margin at the left-hand edge, and the other 3 edges shall have margins of not less than one-half inch.

(5) There shall be a title block on the lower right-hand corner of all sheets of tracing linen or approved equivalent. A title block shall be on the reverse side of all aerial photographs or acceptable alternative plats or maps. The title block shall include the following information:

(C) the county in which the project is to be located; and

(D) the sheet or photograph number and the total number of sheets; for example: "Sheet 1 of 1," "Sheet 4 of 6."

(6) If applicable, match lines must be shown on appropriate sheets of plans.

§295.122. Drawings Not To Be Folded.

Drawings, maps and aerial photographs shall not be folded. If mailed, they must be protected by a tube or heavy envelope.

§295.123. Content Requirements of Maps.

Maps or plats shall be drawn to a scale not less than one inch equals 2,000 feet, and shall show the following:

- (1) The location and extent of the proposed works, accompanied by a vicinity map;
- (2) The location of each point of diversion, by course and distance from a corner of an original land survey and/or other survey point of record;
- (3) The location at which return water or surplus water will be discharged into a stream, by course and distance from a corner of an original land survey and/or other survey point of record;
- (4) The name of the river, stream or other source of supply, with the direction of flow indicated;
- (5) The position and area of all lakes, reservoirs, or basins intended to be used, and the water line thereof; and
- (6) The location and ownership of all existing canals, laterals, ditches, conduits, reservoirs, or other works of like character, indicated by appropriate symbols to differentiate these works from the proposed works.

§295.124. Additional Requirements for Dams and Reservoirs.

(a) In addition to the preceding requirements, maps or plats submitted with application plans for dam and reservoir projects shall include the following, if applicable:

- (1) A plan of the dam showing location of all pertinent features, including structures, spillway discharge channels, roads and property lines.
- (2) A topographic map covering damsite, reservoir area, spillways, streambed downstream from the dam, spillway and outlet works, discharge channels for maximum high-water level and normal maximum high-water level with waterline contours shown in heavy lines on reservoir area, and the source of the topographic and supplementary information for determination of contours.
- (3) A survey tie of a station on the centerline of the dam to a corner of an original land survey and/or other survey point of record.
- (4) A longitudinal profile along the axis of the dam and abutments showing elevations of the original groundline and locations of: bottom of core trench or other cutoff facilities; the top of the impervious stratum, if any; soil boring logs; all outlet works, with inlet and outlet invert elevations; and top of dam.
- (5) Plans, profiles, and cross sections of spillways and discharge channels, in appropriate dimensions.

(6) A cross section of the dam at its maximum height, showing all pertinent dimensions and details.

(7) The drainage area, in square miles.

(8) Preliminary plans of service and emergency spillways, showing adequacy of these spillways to pass anticipated floods. The following information shall be provided: elevation-area-capacity curves and tables for the proposed reservoir to maximum high-water elevation; spillway discharge-rating curves and water surface profiles for spillway discharge channels, including tailwater elevation; and survey of receiving channel for determination of downstream discharge conveyance capacity. Derivation of the spillway design storm, flood routing through reservoir, and calculated surcharge and freeboard shall be shown in report form. Spillway adequacy of proposed and existing dams will be evaluated utilizing standard engineering procedures and techniques including, but not limited to, those employed and recommended by the U.S. Army Corps of Engineers, U.S. Soil Conservation Service, U.S. Bureau of Reclamation, and the American Society of Civil Engineers.

(b) All elevations shall be referred to mean sea level datum.

(c) Plans of a proposed enlargement of a dam shall be drawn to clearly distinguish between the limits of the new and old work.

(d) The executive director may require the filing of additional information which, in his opinion, may be necessary to determine the feasibility of the project.

§295.125. Requirements for Temporary Permits.

An application for a temporary permit shall be accompanied by a vicinity map at least 8-1/2 by 11 inches with sufficient information to enable the executive director to locate on the ground the diversion site and return water discharge points.

§295.126. Requirements for Texas Water Code §11.143 Permits.

An applicant for a Texas Water Code §11.143 permit shall furnish an aerial photograph of the site. If no aerial photograph is available, the applicant shall submit a map upon which are outlined any areas to be irrigated and upon which the dam and reservoir are located by distance and direction from a corner of an original survey and/or other survey point of record.